



MISSION COVERAGE STATISTICS

25X1A

KH-4 MISSION 1108-1

4-II DECEMBER 1969

TCS-20373/69
DECEMBER 1969
COPY 209
14 PAGES

25X1A

DECLASS REVIEW by
NIMA/DOD

GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

INTRODUCTION

This publication provides preliminary mission data, Greenwich Mean Time of passes, correlation of photographic coverage with WAC Chart Areas, coverage plots, and preliminary data for Mission 1108-1, dated 4-11 December 1969 (GMT).

Plot sheets are arranged by geographic areas as indicated by the index tabs. Coverage of the Eurasian land mass is divided into days to eliminate illegible overprinting.

Plots for the forward and aft cameras are portrayed as stereoscopic and/or monoscopic passes. Stereo passes will be shown with the forward-looking camera frame numbers inside the pass outline and the corresponding aft-looking camera frame numbers outside the pass outline. In the event of monoscopic coverage, only the frame numbers of the operative camera will appear. The relative location of photographs falling between the numbered frames may be approximated by interpolation.

All frames are indicated on the plot sheets, regardless of water coverage, total cloud cover, or a complete lack of imagery.

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PRELIMINARY MISSION DATA

Mission Number: 1108-1

Launch Date/Time (GMT): 4 December 1969/2138

Photo Dates (GMT): 4-11 December 1969

Recovery Date and Time (GMT): 11 December 1969/2352

Operational Photo Passes: 34

Operational Altitude Limits: 82 - 117 Nautical Miles

Photo Scale Range: 1:248,144 - 1:340,952

Operational Ground Coverage (Fwd and Aft):

- a. Linear Nautical Miles 43,528
- b. Square Nautical Miles 5,223,360

Frames:

- a. Operational
 - Fwd-Looking 2,720
 - Aft-Looking 2,721
- b. Stellar 4,332
- c. Index 2,166

Operational Imagery Footage (Fwd and Aft): 13,477

Anomalies: No major anomalies occurred during this mission.

Vehicle Attitude: Normal

Image Quality:

a. Main Cameras: The image quality of the fwd-looking camera record is more variable than that provided by the aft-looking camera. Out of focus imagery (soft spots) and instances of image smear (scan direction) can be detected on the fwd-looking camera material. The out of focus imagery is present on frames 3 and 4 of each pass. This area (approx. 1 inch in width) is located approximately 12 inches from the take up end of the frame and extends across the entire format. In general, the overall image quality of the fwd-looking camera is rated as fair, while the image quality of the aft-looking camera product is rated as good.

b. Index Camera: The index camera functioned properly throughout the mission and provided image quality comparable to that attained on recent missions.

Image Quality:

c. Stellar Camera: The stellar camera operated throughout the mission. Approximately 15 to 20 stellar images can be detected in most frames.

Cloud Free Coverage: Approximately 85 percent of the entire mission is cloud free.

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EURASIA

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AFRICA

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 SOUTH AMERICA

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